"FIRE-IMMUNITY": PSYCHOPHYSIOLOGICAL PHENOMENON PSI ABILITY OR

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Anthropologists and ethnographers in the course of the field research have often observed the phenomena of truels. During these rituals, individuals could walk through hot infernos without any harm to themselves. In the course of these phenomena which describes members of particular communities (often perceived as "witches") and adepts of the course of the communities (often perceived as "witches") and adepts of the course of t

attempt, only 9 of them suffered minor burns. Thomson [3,4] rdescribed a ceremony called "Vilavilareivo," in which members of the clan "Llankata" on Mbenga island of the Fiji archipelago were able to walk over burning coals due to their "power to influence fire."

According to Thomson, the Fiji firewalkers chose a Gome cults who can walk unharmed over fire.

Gaddis [1] reported numerous cases of this type. A Rook by Kenn [2] described a study conducted by the Surning coals more than 4.5 meters long. After this

The kerchief instantly flamed and burned. However, after othe ceremony the feet of the participants were perfectly prormal. They also claimed that they could transfer their prifire-immunity" to others. At the beginning of the ceremony, Sharge, burning-hot wooden stumps and large round hot stones where placed in the ditch, becaming a white-hot mass which emitted extremely intense heat. During the next part of the ceremony the participants levelled the surface and began to walk over it. A researcher came up to a stone, on which a

this article for publication is greatly appreciated. - Ed. The assitance of Duska Avrese (Verona, Italy) in preparing

> more detailed information about firewalkers there. together with some of his European friends. Only one of firewalking in Polynesia, in which some Europeans them had a burn on his skin. Henry [7] also describes Cook archipelago and joined a firewalking ceremony himself, [6] observed similar phenomena at Baratonga island of the be conveyed to others. immunity in Natal and also emphasized that the ability can participated. observed firewalking during a "Vilavilareivo" ceremony on level the stones became black from the heat. Fulton [10] high that the wooden sticks, which the participants used to firewalking ceremony the temperature of the stones was so to prepare the place for firewalking. In Fulton's opinion, immunity by specific physical properties of the stones used Fiji and attempted heat emission. these stones possessed large thermal heat capacity but small Ocken [5] observed the same phenomenon on Fiji and gave Sayce [8] observed some episodes of fireto explain the phenomenon of fire-Roth [9] noted that during

the problem of fire-immunity, which were successfully walk over hot coals with the temperature of replicated later. Kuda Bux, a Hindu studied by Price, could Price [11] and Brown [12] conducted five experiments on

Fahrenheit. as part of their typical religious ceremony [14-20]. origin of which is lost in legends. firewalking in Anastenarides, a Greek religious sect, the have studied firewalking performed by members of this sect In Italy, Cassoli [13] studied the problem of Numerous researchers

of the villagers were present, they decided that these heard strange sounds, as if people were crying. Since all observed the flames gradually destroying the church, they Constantine church. While inhabitants of the village Tracia. Once, a fire suddenly broke out in a small San 1257, describe events in the village of Kosti in northern sounds were created by icons in the church. that the icons left in the flaming church had asked for took out eight icons, and left the church without any burns Reports on fire-immunity in Greece, dated as early as Several villagers threw themselves into the flames They concluded

These icons became the property of those who saved them.

The legend states that from this time on, these individuals bad the ability of fire-immunity, which was inherited from the concration to another.

O Cassoli [13] has observed several episodes of fire-Galking. He described a ceremony he witnessed as follows:

The bed of red-hot coals 10-15 cm thick was spread on an 14 x to foot area. In the darkness, the coals glowed so brightly that one could see the faces of those who participated in the ceremony. I saw an individual kick off his shoes. . . Several others also took off their shoes and socks. Then I have him walking with a very calm and rhythmic step, like the surface covered by the coals. He was followed by a the burning coals as they touched the external surface of the shoes into the fire and her feet even plunged into the feet. She walked slowly, making six steps to cross the fire-immunity to the individuals who had observed the externony.

There is extensive literature on studies of these phenomena conducted by ethnographers and parapsychologists [221-27]. Firewalking was observed in religious ceremonies on Asia, Africa, Oceania, America, Indonesia, and Eastern Gurope. Since during these ceremonies their participants equired fire-immunity, some researchers found a certain similarity between firewalking and phenomena observed in the physical mediumship phenomena.

Minitarity between firewalking and phenomena observed in the mistory of parapsychology, especially in the research of physical mediumship phenomena.

Reveryone who has studied parapsychology is familiar with the capacities of Daniel Douglas Home, a famous medium of the last century, who demonstrated fire-handling: the ability to handle hot coals without any harm to himself. There were some reports that he also was able to transfer this ability to mediumistic seance participants [28-30]. The property of the medium, described numerous procumented cases of this type [31].

Despite numerous ethnographic and parapsychological evidence of the phenomena and the data of field research,

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parapsychologists paid little attention to the study of fire-immunity. However, there exist some limited experimental data.

The most important aspect of this phenomenon can be formulated as follows: certain individuals possess immunity to the influence of such high temperatures which normally are detrimental for the human organism. It is well known that tissues of mammals cannot stand temperatures higher than 60° Centigrade; higher temperatures usually cause burns on the skin surface. However, in the case of firewalkers no burns were observed. There exist three hypotheses to explain this phenomenon:

1. Firewalkers and mediums perform tricks unnoticed to bservers.

2. The phenomenon is of "paranormal" causes.

3. Fire-immunity can be explained from the viewpoint opsychophysiology.

Let us analyze all the three assumptions. The author believes that the possibility of tricks can be ruled out. Among individuals who successfully performed firewalking there were not only "professionals" (e.g., shamans, members of esoteric, magical and religious sects), but ordinary individuals who participated in the ceremonies. There is a possibility that some individuals might do tricks, but this is not true for the majority of observations.

A 'paranormal' explanation of firewalking is supported by a number of researchers. According to this assumption, individuals in the process of firewalking produce an influence of a psychokinetic type directed to the fire itself. We believe, however, that presently there are no research data to support such an assumption.

The possibility that fire-immunity is caused by natural psychophysiological factors is most frequently expressed. Numerous facts demonstrate that this assumption is reliable: Everyone possess a certain degree of moisture of the skin which gradually evaporates and protects the skin surface from burn, at least temporarily. There is also the fact emphasized by Frazer [32] that individuals who participate in these ceremonies have usually walked barefoot from their early childhood and have calluses on the soles of their feet which protect them during firewalking. Since these

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and make only a few steps is not sufficient to explain the certainly quite limited. There were a number of Europeans who participated in similar ceremonies without harm to not get burned. involved. lack of burns, given the extremely high temperatures themselves. individuals make only few quick steps on the fire, they Furthermore, This interpretation of the phenomenon is the fact that they walk quickly

"transmit" his ability to other participants. seances, in which the medium, who was in trance, could phenomenon of fire-immunity also occurred during mediumistic like altered state. This assumption would explain why the fire-immunity that is transferred, but rather the tranceto another. Therefore, perhaps, it is not the ability of consciousness which can be transferred from one individual firewalking ceremonies are in trance-like altered states of A more plausible assumption is that participants

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consciousness. intensive thermal stimuli in altered states of modification in the response of the human organism to that the phenomenon of fire-immunity is related to a studies also demonstrated a decrease of pain sensitivity in hypnotic trance (e.g. [13]). These observations suggest the participants of ritual fire dances on hot coals. Some Cassoli [13] emphasized the state of mystical exaltation in In his observations of firewalking in Anastenarides,

empirical data which would confirm the existence of a of psi influence as the basis for fire-immunity. phenomenon of fire-immunity. At the same time, there are no evidence for proper evaluation of the nature of At present we do not possess sufficient experimental

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THE SOVIET PRESS REPORTS ON FIREWALKING

The following two reports are excerpts Nauka 1 appear clusive or profe Youth), Slavchev in give us insight 1 1969; Soviet bloc countril No. 's article, in two unrelated Soviet magazings "Fire Dancing" by the Bul ekhnika molodezhi (Technology for nd evidence, both t (Science and Religion, No. 8, Dancing" by the Bulgarian S. C "Way Beyond the Hori the point of about this phenomenon. -Without presenting conview held in hese articles on," in

Way Beyond Horis

Igor Gubern

several countries of the wor African nations. the Polynesian Islands of the South firewalking ritual as re**/**ounted by an The phenomenon of firewal Below I present a col has been encountered dia, Pacific and several orful account of the eyewitness on the Indonesia, Japan,

island of Bali: This meant that a priest was present. began to go int for the ritual stood unbelievable, priest gave the in burners. movements both girls perform a ingredible dance with these fans. toward the girls, eyes closed. fire and the girls began to dance around the fire with their their s "In a small open the pries range state. resumed their dance. One of the attendants lit the Were completely in rhythm and harmony with Two your girls were already dress The girls rested a little without coming out of scene and we became somewhat frightened, had their eyes closed. We were literally numb with fear, afraid that fans and they, now in deep trance, 6 a deeper and deeper trance st who began to breathe them inmoved the intoxicating fume In a small table, Then they were given the fans again, rea stood an open Ever partic Nonetheless hite umbrella thing necessary larly incense of incense They both festive pegan to vas an since heir ach